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MRN: <u>18 BEIJING 138</u>

Date/DTG: Jan 19, 2018 / 190739Z JAN 18

From: AMEMBASSY BEIJING

Action: WASHDC, SECSTATE ROUTINE

E.O.: 13526

TAGS: SHLH, ETRD, ECON, PGOV, CN

Captions:SENSITIVEReference:17 WUHAN 48

Subject: China Opens First Bio Safety Level 4 Laboratory

1. (SBU) Summary and Comment: The Chinese Academy of Sciences (CAS) has recently
established what is reportedly China's first Biosafety Level 4 (BSL-4) laboratory in Wuhan.
This state-of-the-art facility is designed for prevention and control research on diseases that
require the highest level of biosafety and biosecurity containment. Ultimately, scientists hope
the lab will contribute to the development of new antiviral drugs and vaccines, but its current
productivity is limited by a shortage of the highly trained technicians and investigators required
to safely operate a BSL-4 laboratory and a lack of clarity in related Chinese government policies
and guidelines. (b)(5)
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China Investing in Infectious Disease Control

End Summary and Comment.

2. (U) Between November 2002 and July 2003, China faced an outbreak of Severe Acute Respiratory Syndrome (SARS), which, according to the World Health Organization, resulting in 8,098 cases and leading to 774 deaths reported in 37 countries. A majority of cases occurred in China, where the fatality rate was 9.6%. This incident convinced China to prioritize international cooperation for infectious disease control. An aspect of this prioritization was China's work with the Jean Merieux BSL-4 Laboratory in Lyon, France, to build China's first high containment laboratory at Wuhan's Institute of Virology (WIV), an institute under the auspices of the Chinese Academy of Sciences (CAS). Construction took 11 years and \$44 million USD, and construction on the facility was completed on January 31, 2015. Following

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two years of effort, which is not unusual for such facilities, the WIV lab was accredited in February 2017 by the China National Accreditation Service for Conformity Assessment. It occupies four floors and consists of over 32,000 square feet. WIV leadership now considers the lab operational and ready for research on class-four pathogens (P4), among which are the most virulent viruses that pose a high risk of aerosolized person-to-person transmission.

Unclear Guidelines on Virus Access and a Lack of Trained Talent Impede Research

3. (SBU) In addition to accreditation, the lab must also receive permission from the National Health and Family Planning Commission (NHFPC) to initiate research on specific highly contagious pathogens. According to some WIV scientists, it is unclear how NHFPC determines what viruses can or cannot be studied in the new laboratory. To date, WIV has obtained permission for research on three viruses: Ebola virus, Nipah virus, and Xinjiang hemorrhagic fever virus (a strain of Crimean Congo hemorrhagic fever found in China's Xinjiang Province). Despite this permission, however, the Chinese government has not allowed the WIV to import Ebola viruses for study in the BSL-4 lab. Therefore, WIV scientists are frustrated and have pointed out that they won't be able to conduct research project with Ebola viruses at the new BSL-4 lab despite of the permission.

(b)(6)
Thus, while the BSL-4 lab is ostensibly fully accredited, its utilization is
limited by lack of access to specific organisms and by opaque government review and approval
processes. As long as this situation continues, Beijing's commitment to prioritizing infectious
disease control - on the regional and international level, especially in relation to highly
pathogenic viruses, remains in doubt.
noted that the new lab
has a serious shortage of appropriately trained technicians and investigators needed to safely
operate this high-containment laboratory. University of Texas Medical Branch in Galveston
(UTMB), which has one of several well-established BSL-4 labs in the United States (supported
by the National Institute of Allergy and Infectious Diseases (NIAID of NIH)), has scientific
collaborations with WIV, which may help alleviate this talent gap over time. Reportedly,
researchers from GTMB are helping train technicians who work in the WIV BSL-4 lab. Despite
this, (b)(6) they would welcome more help from U.S. and
international organizations as they establish "gold standard" operating procedures and training
courses for the first time in China. As China is building more BSL-4 labs, including one in
Harbin Veterinary Research Institute subordinated to the Chinese Academy of Agricultural
Sciences (CAAS) for veterinary research use (b)(6) the training for
technicians and investigators working on dangerous pathogens will certainly be in demand.
- The state of the

Despite Limitations, WIV Researchers Produce SARS Discoveries

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the use of the new BSL-4 far SARS. Over a five-year stubats in Yunnan province with funding agencies. The stude (1), and it demonstrated that cave contain all the building human outbreak. These responding to the coronavirus of the coronavirus of the coronavirus. This finding students that the coronavirus of the coro	IV scientists to undertake productive research described in the productive research described in the productive research team that funding support from NIAID/NIH, USAID, a yresults were published in PLoS Pathogens only to a SARS-like coronaviruses isolated from horse groups blocks of the pandemic SARS-coronavirus generation. Most importantly, the researchers also show an interact with ACE2, the human receptor identification interact with ACE2, the human receptor identification of SARS-like disease. From a public health per llance of SARS-like coronaviruses in bats and structure emerging coronavirus outbreak prediction intists are allowed to study the SARS-like coronaviruses causing Scientification for such work is granted by the NHFO	n the origins of n) widely sampled and several Chinese ine on Nov. 30, 2017 eshoe bats in a single some that caused the SARS-coronavirus owed that various diffied for SARS- com bats can be erspective, this and prevention. (b)(5) aviruses isolated ARS coronavirus in	
 Hu B, Zeng L-P, Yang X-L, Ge X-Y, Zhang W, Li B, et al. (2017) Discovery of a rich gene pool of bat SARS-related coronaviruses provides new insights into the origin of SARS coronavirus. PLoS Pathog 13(11): e1006698. https://doi.org/10.1371/journal.ppat.1006698 Signature: BRANSTAD 			
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